

Grade 7 – Strand:

Pre-Knowledge What do you need to know to start learning this concept?	Concept	Future Concepts What future concepts can you learn once you understand this concept?	Real World Connection How does learning this connect connect to the real world in a meaningful?
<ul style="list-style-type: none"> • Know what decimals are and how to computer simple math problems with decimals (add, subtract, multiply, etc.) • Know how to use a calculator. • Having adequate reading comprehension. 	<ul style="list-style-type: none"> • solve multi-step problems arising from real-life contexts and involving whole numbers and decimals, using a variety of tools (e.g., concrete materials, drawings, calculators) and strategies (e.g., estimation, algorithms); 	<ul style="list-style-type: none"> • How to make appropriate assumptions. • How to work through a complex multi-step problem. 	<ul style="list-style-type: none"> • Buying multiple items at a store, finding the total cost including tax. • Setting up a budget (paying bills). • Future multiple step decision making: designing your wedding seating plan, cook a gourmet meal for a large group, etc.
<ul style="list-style-type: none"> • Knowledge of percentages and decimals. • Strong in mental math • Practical knowledge (the tax rate, etc.) • Knowledge of rounding (when it's appropriate) 	<ul style="list-style-type: none"> • use estimation when solving problems involving operations with whole numbers, decimals, and percentages, to help judge the reasonableness of a solution 	<ul style="list-style-type: none"> • How to make appropriate assumptions. • How to work through a complex multi-step problem • Being able to mentally assess simple operations which can aid when doing complex or multi-step problems. 	<ul style="list-style-type: none"> • Budget • Purchasing • Manufacturing • Cooking •
<ul style="list-style-type: none"> • Understanding the purpose of a bracket, and bracket operations. • Knowledge of decimals and whole numbers, and how to calculate with them. • Knowledge of order of operations (BEDMAS) 	<ul style="list-style-type: none"> • evaluate expressions that involve whole numbers and decimals, including expressions that contain brackets, using order of operation 	<ul style="list-style-type: none"> • Factoring, algebraic equations, calculus, and higher level sciences. 	<ul style="list-style-type: none"> • Helpful in higher level math and Sciences. • Answering skill testing questions for contests. • Useful in accounting.
<ul style="list-style-type: none"> • Knowledge of a numerator and a denominator. • Basic number sense (how to 	<ul style="list-style-type: none"> • add and subtract fractions with simple like and unlike denominators, using a variety 	<ul style="list-style-type: none"> • Algebra • Balancing chemical reactions • Converting between decimals, 	<ul style="list-style-type: none"> • Cooking (eg. $\frac{2}{3}$ of a cup)

add, multiply) <ul style="list-style-type: none">• Knowledge of common factors.	of tools (e.g., fraction circles, Cuisenaire rods, drawings, calculators) and algorithms;	fractions, and percentages. <ul style="list-style-type: none">• Multiplying and dividing fractions	
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